Fig. 1

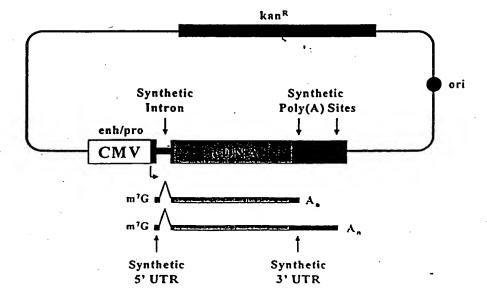


Fig. 2

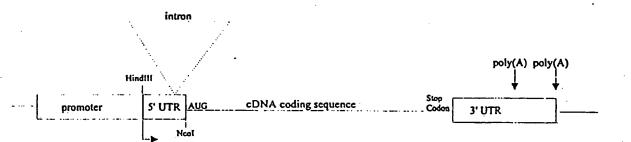
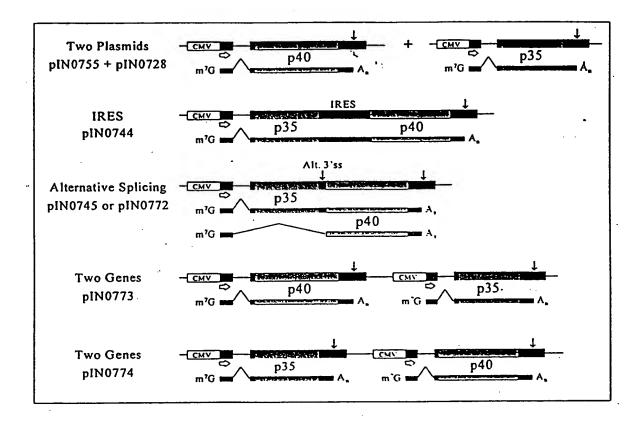


Fig. 3



Sheet 4 of 16

AGC

CTG AGC

Fig. 4A

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File: H40.AMI
 Range: 1 - 32
Codon Table: Universal
 SEQ ID NO. 1
                                 10
Met Cys His Gln Gln Leu Val Ile Ser Trp Phe Ser Leu Val Phe Leu Ala Ser Pro Leu
ATG TGY CAY CAR CAR YTN GTN ATH WSN TGG TTY WSN YTN GTN TTY YTN GCN WSN CCN YTN
 ATG TGT CAT CAA CAA TTA GTT ATT TCT TGG TTT TCT TTA GTT TTT TTA GCT TCT CCT TTA
    TGC CAC CAG CAG TTG GTC ATC TCC TTC TCC TTG GTC TTC TCG GCC TCC CCC TTG
                                                     CTT GCA TCA CCA CTT
                                    / TCA CTT GTA
                  CTT GTA ATA TCA
                                                     CTC GCG TCG CCG CTC
                  CTC GTG
                             TCG
                                       TCG CTC GTG
                                       AGT CTA
                                                     CTA
                                                            AGT
                                                                   CTA
                  CTA
                             AGT
                             AGC
                                       AGC CTG
                                                     CTG
                                                            AGC
                                                                   CTG
                  CTG
Val Ala Ile Trp Glu Leu Lys Lys Asp Val Tyr Val Val Glu Leu Asp Trp Tyr Pro Asp
GTN GCN ATH TGG GAR YTN AAR AAR GAY GTN TAY GTN GTN GAR YTN GAY TGG TAY CCN GAY
 --- --- --- --- --- --- --- --- --- --- --- --- --- ---
GAG TTG AAG AAG GAC GTC TAC GTC GAG TTG GAC
GTC GCC ATC
                                GTA
                                       GTA GTA
                                                  CTT
                  CTT
GTA GCA ATA
GTG GCG
                                GTG
                                       GTG GTG
                                                  CTC
                                                                CCG
                  CTC
                                                  CTA
                  CTA
                                                  CTG
                  CTG
                                  50
Ala Pro Gly Glu Met (Val Val) Leu Thr Cys Asp Thr Pro Glu Glu Asp Gly Ile Thr Trp GCN CCN GGN GAR ATG GTN GTN YTN ACN TGY GAY ACN CCN GAR GAY GGN ATH ACN TGG
 GCT CCT GGT GAA ATG GTT GTT TTA ACT TGT GAT ACT CCT GAA GAA GAT GGT ATT ACT TGG
 GCC CCC GGC GAG GTC GTC TTG ACC TGC GAC ACC CCC GAG GAG GAC GGC ATC ACC
                  GTA GTA CTT ACA ACA CCA GGA ATA ACA
 GCA CCA .GGA
                 GTG GTG CTC ACG
                                      ACG CCG
                                                         GGG
 GCG CCG GGG
                         CTA
                         CTG
 Thr Leu Asp Gln Ser Glu Val Leu Gly Ser Gly Lys Thr Leu Thr Ile Gln Val Lys
 ACN YTH GAY CAR WEN WEN GAR GTH YTH GGN WEN GGN AAR ACN YTH ACN ATH CAR GTN AAR
 ACT TTA GAT CAA TCT TCT GAA GTT TTA GGT TCT GGT AAA ACT TTA ACT ATT CAA GTT AAA
 ACC TTG GAC CAG TCC TCC GAG GTC TTG GGC TCC GGC AAG ACC TTG ACC ATC CAG GTC AAG
               TCA TCA GTA CTT GGA TCA GGA ACA CTT ACA ATA
 ACA CTT
                                              ACG CTC ACG
                         GTG CTC GGG TCG GGG
 ACG CTC
               TCG TCG
                                    AGT
                                                CTA
               AGT AGT
                             CTA
    CTA
                             CTG
                                    AGC
                                                  CTG
               AGC AGC
    CTG
                                  90
 Glu Phe Gly Asp Ala Gly Gln Tyr Thr Cys His Lys Gly Gly Glu Val Leu (Ser )His (Ser
 GAR TTY GGN GAY GCN GGN CAR TAY ACN TGY CAY AAR CON GAR GTN YTN WEN CAY WEN
 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
GAA TIT GGT GAT GCT GGT CAA TAT ACT TGT CAT AAA SGT GGT GAA GTT TTA TCT CAT TCT
 GAG TTC GGC GAC GCC GGC CAG TAC ACC TGC CAC AAG GGC GGC GAG GTC TTG TCC CAC TCC
                                           BBA BBA
                                                      GTA CTT TCA
                          ACA
        GGA
               GCA GGA
                                                      GTG CTC TCG
                                           999 999
                             ACG.
               GCG GGG
        GGG
                                                                   AGT
                                                         CTA AGT
```

3 / 2 45/4 5/4 1/4 1/4 1/4 1/4

Fig. 4B

				≭is															
YTN	YTN	YTN	YTN	CAY	AAR	AAR	GAR	GAY	GGN	ATH	TGG	WSN	ACN	GAY	ATH	YTN	AAR	GAY	CAR
TTA	TTA	TTA	TTA	CAT	AAA	AAA	GAA	GAT	GGT	ATT	TGG	TCT	ACT	GAT	ATT	TTA	AAA	GAT	CAA
	-			CAC										GAC					
CTT	CTT	CTT	CTT						GGA	ATA			ACA	•	ATA	CTT			
		CTC				÷			GGG			TCG	ACG			CTC			
		CTA CTG										AGT				CTA			
	CIG	CIĢ	CIG			•				•1		NOC				010			
									130	`	•							•	140
				Asn															
AAR	GAR	CCN	AAR	AAY	AAK	ACN		110	MGN		GAR	GCN				WSIN	GGN	MGN	
AAA	GAA	CCT	AAA	AAT	AAA	ACT	TTT	TTA	CGT	TGT	GAA	GCT	AAA	AAT	TAT	TCT	GGT	CGT	TTT
AAG	GAG	CCC	AAG	AAC	AAG	ACC	TTC	TTG	CGC	TGC	GAG	GCC	AAG	AAC	TAC	TCC	GGC	CGC	TTC
		CCA				ACA		CTT				GCA					GGA	-	
		CCG				ACG.		CTC				GCG				AGT	GGG	AGA	
								CTG								AGC		AGG	
					•														
	,								150							_		2	160
Thr	Cys	Trp	Typ	Leu (Thr	Thr	Ile	Ser	Thr	Asp	Leu	Thr	Phe	Ser	Val	Lys	ser	Ser	Arg
ACN	TGY	TGG	TGG	YTN	ACN	ACN	AIH	wsn	ACN	GAI	111	ACN	111	M2W	GIN	AAR	W214	 M2M	
ACT	TGT	TGG	TGG	TTA	ACT	ACT	ATT	TCT	ACT	GAT	TTA	ACT	TTT	TCT	GTT	AAA	TCT	TCT	CGT
	TGC										TTG								
ACA				CTT	ACA	ACA.	ATA	TCA	ACA		CTI			TCA				TCA	
ACG					ACG	ACG		TCG	ACG		CTC	ACG		TCG	GTG			TCG AGT	
				CTA				AGT AGC			CTA			AGT AGC				AGC	
					_				170				, 	_	_			_	180
Gly	Ser	Ser	Asp	Pro CCN	Gln	GLY	Val	Thr	Cys	GIY	GCZ-	Ala	Inr	Leu	Ser	CUN TTS	GIU	MGN	CIN
GGN	non	HON	GAI																
				CCT															
GGC	TCC	TCC	GAC	CCC														CGC	GTC
	TCA			CCA							GCA								GTA
GGG	TCG			CCG		GGG	GTG	ACG		GGG	ccc	GCG	ACG		AGT	GCG		CGG AGA	GIG
		AGT AGC													AGC			AGG	
	_		•				_•		190	-				٠.	_	_		_	200
				Lys															
MGN	GGN 	GAY	AAY	AAR	GAK	TAY	GAR	IAX	11211	GIN	GAS			GAR	GAI				
CGT	GGT	GAT	Д ДТ	AAA	GAA	TAT	GAL	TAT			G22		~2.3	CAA	CAT	-~-	شان	TOT	ر س
CGC	GGC	GAC	AAC	AAG	GAG	TAC	ΑG	TAC	71.0	TC	GA.3	TGC	CAG	3	GAC	TCC	GCC	TGC	CCC
	GGĀ									CTA							GCA		CCA
	GGG									GTG						TOG	GCG		CCG
AGA									TCA							AGT		•	
AGG									AGC							AGC			

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Fig. 4C

									E J	٠g٠	#(_							Diloc	
				**																
		= /								210										220
	(Ala	Ala	<u>,</u> Glu	GJy	Ser	Leu	Pro	Ile	Glu	Val	Ret	Val	Asp	Ala	Val	His	Lys	Leu	Lvs	Tvr
	CGN	-BCN	GAR	-car	WSN	YTN	CCN	ATH	GAR	GTN	A.TG	GTN	GAY	GCN	GTN	CAY	AAR	YTN	AAR	TAY
	GCT	GCT	GAA	GAA	TCT	TTA	CCT	АТТ	GAA	GTT	ATY	CTT	СУТ	CCT	CTT	CNT	***	מידים	222	T B T
	GCC	GCC	GAG	GAG	TCC	TTG	CCC	ATC	CAG	CTC								TTG		
		GCA		00				ATA	GAG							CAC	AAG		AAG	TAC
		GCG						AIA		GTA		GTA			GTA			CTT		
	GCG	GCG				CTC				GTG		GTG		GCG	GTG			CTC		
						CTA												CTA		
					AGC	CTG												CTG		
							_													•
		_	_			X				230	,	7		(\sim	$\overline{}$:/		240
	Glu	Asn	Tyr	Thr(Ser	Set	Phe	Phe	<u>Affe</u>)Arg	Asp	/Lle	Ile	Lys\	Pro	Asp\	Pro	Pro	Lys	Asn
	GAR	AAY	TAY	ACN	WSW.	WSN	TTY	TTY	ATH	MG:I	AY	ATH-	-A TH	AAR	CCN	GAY	CCM.	CCN	AAR	AAY
										 -	·					· 				
				ACT									ATT			PAT	CCT	CCT	AAA	AAT
	GAG	AAC	TAC	ACC	TCC	TCC	TTC	TTC	ATC	CGC	··AC	ATC	ATC	AAG	CC	GAC	CCC	CCC	AAG	ÁAC
				ACA	TCA	TCA			ATA	CGA		ATA	ATA		CC .		CCA			
				ACG	TCG	TCG				CGO					CC3		CCG			
					AGT	AGT				AGA										
					AGC					AGC										
•	• _				_											•				
	$ \mathcal{L} $		_/			7				250										260
	(Ten)	GI n	Len	Lys	Prof	Tan	Tare	Acn	Co~		C1 =	Ual	C1	v-1	Com	m	G1		D	
	VTAI	CVD	TIE OF	AAR	CCM	neu,	מאא	ASII	SET	Arg	GIII	vai	GIU	vai	ser	Trp	GIU	lyr	Pro	Asp
	1114	CAR	1 114	MAR	CCN	IIN	AAK	AAI	WSN	MGN	CAR	GTN	GAK	GIN	WSN	TGG	GAR	TAY	CCN	GAY
	TTA	CAA	TTA	AAA	CCT	TTA	AAA	AAT	TCT	CGT	CAA	GTT	GAA	GTT	TCT					
		CAG		AAG			AAG	AAC			CAG	GTC	GAG	GTC	TCC	_	GAG	TAC	CCC	GAC
	CTT		CTT		CCA				TCA	CGA		GTA		GTA	TCA				CCA	•
	CTC		CTC		CCG	CTC			TCG	CGG		GTG		GTG	TCG				CCG	
	CTA		CTA			CTA			AGT	AGA					AGT					
	CTG		CTG			CTG			AGC	AGG					AGC					
			_																	
	<i>-</i>		$\overline{}$	\sim			\triangle			220					,) -			280
	(fhr)	Trp	Sen	(Thr)	Pro	His	(Sez)	Tyr	Phe	Sed	Leu	Thr	Phe	Cys	Val	Gln	Val	Gln	Glv	Lvs
	ACN	TGG	WEN	ACN	CCN	CAY/	WEN	TAY	TTY	AIS:N	YTN	ACN	TTY	TGY	GTN	CAR	ĠŦÑ	CAR	GGN	AAR
				<u> </u>	سعت	<u></u>														
	ACT	TGG	TCT	ACT	CCT	CAT	TCT	TAT	TTT	тст	TTA	АСТ	للعلمة	TET	CTT	CAA	تتت	CAA	CCT	444
	ACC			ACC																
	ACA			ACA			TCA				CTT				GTA		GTA		GGA	ANG
	ACG			ACG			TCG				CTC									
	neo		AGT	ACG	CCG							ACG			GTG	•	GTG		GGG	
							AGT			ACT						•				
			AGC				AGC			AGC	CTG				,					
	0	•	-		_	_	_	_		290		_								300
	ser	гуз	Arg	Glu	Lys	Lys	Asp	Arg	Val	Phe	Thr	Asp	Ŀvs	Thr	Ser	Ala	Thr	Val	Ile	Cys
	MCM	አአኮ	MCN	CVD	8 8 D	220	CNV	MON	CTN	TTV	201					~~.				
	MON	MMK	MON	GAR	AAK	MAK	GAI	MGK	NI C	: ! Y	ACN	SA?	بمخد	ALN	WSN	الثاق	ACN	GTN	ATH	TGY
															<u>.</u>					
				GAA																
		AAG	CGC	GAG	AAG	AAG					ACC	GAC	aag							TGC
	TCA		CGA	_				CGA	GTA		ACA			ACA	TCA	GCA	ACA	GTA	ATA	
	TCG		CGG					CCCG	GTG		ACG			ACG	TCG	GCG	ΑŒ	GTG		
	AGT		AGA					AGA							AGT					
	AGC		AGG					AGG							AGC					

310 Arg Lys Asn Ala Ser Ile Ser Val Arg Ala Gln Asp Arg (Tyr Ty) Ser Ser Ser Trp (Ser MGN AAR AAY GCN WSN ATH WSN GTN MGN GCN CAR GAY MGN TAY TAY WSN WSN WSN TGG WSN --- --- --- --- --- --- --- --- --- --- --- --- ---CGT AAA AAT GCT TCT ATT TCT GTT CGT GCT CAA GAT CGT TAT TAT TCT TCT TCT TGG TCT CGC AAG AAC GCC TCC ATC TCC GTC CGC CCC CAG GAC CGC TAC TAC TCC TCC TCC GCA TCA ATA TCA GTA CGA GCA CGA TCA TCA TCA TCA CGG GCG TCG TCG GTG CGG GCG CGG TCG TCG TCG TCG AGA AGT AGT AGA AGA AGT AGT AGT AGT AGG AGG **AGC** AGC ADG AGC AGC AGC AGC

Glu Trp Ala Ser Val Pro Cys Ser ***

GAR TGG GCN WSN GTN CCN TGY WSN TRR

GAA TGG GCT TCT GTT CCT TGT TCT TAA

GAG GCC TCC GTC CCC TGC TCC TAG

GCA TCA GTA CCA TCA TGA

GCG TCG GTG CCG TCG

AGT AGT

AGC

AGC AGG

AGC

::3

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CTG

CTG

CTS

Fig. 5B

									. 3 .	-	•								
					•														
		_	_,		_,	•	~ 1		110	•			•	•	m l		- ·		120
						Asn AAY													
		 W2IA		ATH	ACN														
GAA	ACT	TCT	TTT	ATT	ACT	AAT	GGT	TCT	TGT	TTA	GCT	TCT	CGT	AAA	ACT	TCT	TTT	ATG	ATG
GAG	ACC	TCC	TTC	ATC	ACC	AAC	GGC	TCC	TGC	TTG	GCC	TCC	CGC	AAG	ACC	TCC	TTC		
	ACA	TCA		ATA	ACA		GGA					TÇA			ACA				
	ACG	TCG			ACG		GGG				GCG			•.	ACG				
		AGT						AGT		CTA			AGA			AGT			
		AGC						AGC		CTG		AGC	AGG			AGC			
									130										140
Ala	Leu	Сув	Leu	Ser	Ser	Ile	Tyr	Glu		Leu.	Lys	Met	Tyr	Gln	Val	Glu	Phe		
						ATH													
						ATT													
		TGC				ATC	TAC	GAG	GAC	CTT	AAG		TAC	CAG	GTA	GAG	TTC	AAG	ACA
	CTC			TCA		MIM				CTC					GTG				ACG
GCG	CTA			AGT			•			CTA									
	CTG	•		AGC						CTG									
						•													
							_		150	_			_,	_		-1	.		160
Met	Asn	Ala	Lys	Leu	Leu	Met	Asp	Pro	Lys	Arg	Gln	He	Phe	Leu	Asp	GIN	ASN	TOM	ren
ATG	AAY	GCN	AAR	YTN		ATG							111	1111	GAI	CAR	AAI	AIG	
ÀTG	TAA	CCT	AAA	TTA		ATG							TTT	TTA	GAT	CAA	AAT	ATG	TTA
																			TTG
		GCA		CTT	CTT			CCA		CGA		ATA		CTT	•				CTT
		GCG		CTC	CTC			CCG		CGG				CTC					CTC
					CTA					λGA				CTA					CTA
				CTG	CTG					AGG				CTG					CIG
									170									•	180
Ala	Val	Ile	Asp	Glu	Leu	Met	Gln	Ala	Leu	Asn	Phe	Asn	Ser	Glu	Thr	Val	Pro	Gln	Lys
GCN	GTN	ATH	GAY	GAR	YTN	ATG	CAR	GCN	YTN	AAY	TIY	AAY	WSN	GAR	ACN	GTN	CCN	CAR	AAR
		:																	
GCT	GTT	ATT	GAT	GAA	TTA	ATG	CAA	GCT	TTA	TAA	TII	AAT	TCT	GAA	ACT	GTT	CCT	CAA	AAA
						•	CAG		CTT		110	AAC		GAG					ANG
	GTA	ATA		*	CTT				CTC				TCG				CCG		
GCG	GIG				CTA			000	CTA				AGT						
					CTG								AGC		•			•	
										•									
									190		_		_	_	_		•	•	200
Ser	Ser	Leu	Glu	Glu	Pro	Asp	Phe	Tyr	Lys	Thr	Liz	Ile	Lys	Leu	Cys	116	Leu	Leu	His
WSN	WSN	YTN	GAR	GAR	CCN	GAY	TTY	TAY	AAR	ACN	AAX	AIH	AAK	1114	101	viu	1114	1114	
TCT	TCT	TTA	GAA	GAA	CCT	GAT	TIT	TAT	AAA	ACT	244	ATT	AAA	TTA	TO	TTA	TTA	TTA	CAT
				GAG		GAC	TC			ACC		ATC ATA		CTT			CTT		
		CTT			CCA			٠		ACG		7.0		CTC		n.n		CTC	
		CTA												CTA				CTA	
		CTG												CIG			CTG	CTG	

Fig. 5C

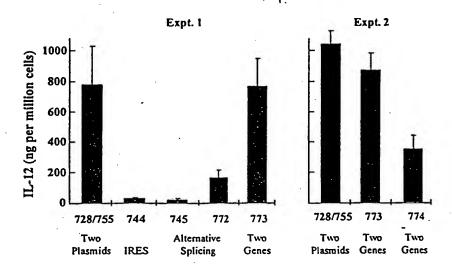
									210										220
Ala	Phe	Arg	Ile	Arg	Ala	Val	Thr	Ile	Asp	Arg	Val	Thr	Ser	Tyr	Leu	Asn	Ala	Ser	***
GCN	TTY	MGN	ATH	MGN	GCN	GŢN	ACN	ATH	GAY	жэй	GTN	ACN	WSN	TAY	YTN	AAY	GCN	WSN	TRR
														. -					
GCT	TTT	CGT	ATT	CGT	GCT	GTT	ACT	ATT	GAT	CGT	GTT	ACT	TCT	TAT	TTA	AAT	GCT	TCT	TAA
		CGC	ATC	CGC	GCC	GTC	ACC	ATC	GAC	CGC	GTC	ACC	TCC	TAC	TTG	AAC	GCC	TCC	TAG
GCA		CGA	ATA	CGA	GCA	GTA	ACA	ATA		CGA	GTA	ACA	TCA		CTT	•	GCA	TCA	TGA
GCG		CGG		CGG	GCG	GTG	ACG				GTG	ACG	TCG		CTC		GCG	TCG	
		AGA		AGA						УÇУ			AGT		CTA			AGT	
		AGG		AGG						AGG	•		AGC		CTG			AGC	

Codon Frequency Tables

human_high.cod

Cadon u	Waga (a	r human (highly	******	ed) gunes 1/14/9
Jayc 14	Codon	Numbe c	/2000	fraction
CIA	CCC	105_00	18.76	0.26
CIA	ccr	\$25.00	10.86	0.14
CIA	cct	441.00	9.14	0.12 .
CIA	œ	1167.00	38.70	4.50
Glu Glu	CAG CAG	2420.30	10:16	0.75
Mp	CAT	792.60 592.60	16.62	0.25
Aep	GAC	1021.00	87.13	0.25 0.75
W1	CIC	1866.00	30.68	0.64
w1	GTA	234,00	2.18	0.05
V41	CIC	721.00	15.49	6.07 6.25
Ala Ala	CCC	652.00	13.51	0.17
ALS	ecr ecr	486.00 634.00	10.12 13.56	0.13
ALa	œc	2057.00	4.11	6.17 6.53
Arg .	ACE ACA	512.00	10.61	4.18
AIY See	AGT	254.00 354.00	6.18 7.34	0.10
Set	¥	1171.00	24.27	0.26
Lye	MC	2117.00	41.50	0.82
Lys Asn	WI	471.60 314.60	9.76 6.51	4.14
) In	WC.	1120.00	23.22	0.22 0.78
Nec	TIC	1077.30	22.32	1.04
Il.	ATA	68.60	1.42	0.05
11e 11e	ATC	117.00 1768.30	58-38 6-23	9.18 0.77
Th E	ACC	€05.00	8.40	0.15
73 F	lc1	273.00	7.73	0.14
The The	NCE NCE	354.00 1502.00	31.13 31.13	0.14 0.57
TTP	rcc	652.00	13.51	1.00
Ead Cy e	LCT.	109.00	2.26	0.55
CAT	tee Tee	325.00 706.00	6.74 14.63	0.51 0.51
Ead	THE	42.00	0.87	0.21
End	th.	46.00	4.35	0.23
tye	TAT TAC	364.00 1042.00	7.45	8.26 8.74
Leu Leu	116	313.00	6.45	4.46
Pho	TTA	76.00 336.00	1.50	0.02
the	iic	1377.60	21.54	6.20 6.80
SAE SAE	TCE . TCA	329.00	6.74	1.11
Ser	ICI	-165.00 450.00	3.42 9.33	6.95 6.13
SAE	TCC	954.00	19.66	6.24
yta	CCC	411.00 183.00	ម.ព	0.21
Atg Atg	CCA	216.06	3.79 4.35	0.06 0.07
Arg	222	1066.00	22.51	1.37
Cin Cin	COC	2020.00	41.17	4.81
Cin Hia	crr crr	283.00	5.17	675
Kis	or.	234.00 870.00	11.43	4.31 6.79
Lou	CIC C	2884.00	31.72	4.64
Lou Lou	CII	166.00 234.00	1.53	4.43
Lau	cic	1276.00	26.45	4.85
750	ccc	482.00	1,11	4.17
750	œx	456.00	1.45	8.16
) to	~~	\$64.00	11.77	4.23
) co	œ	1410.00	21.23	4.44

Fig. 7



...?

Fig. 8

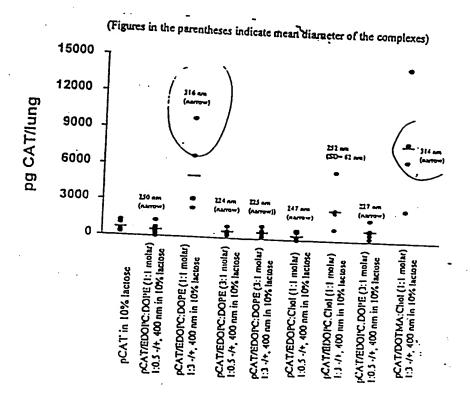
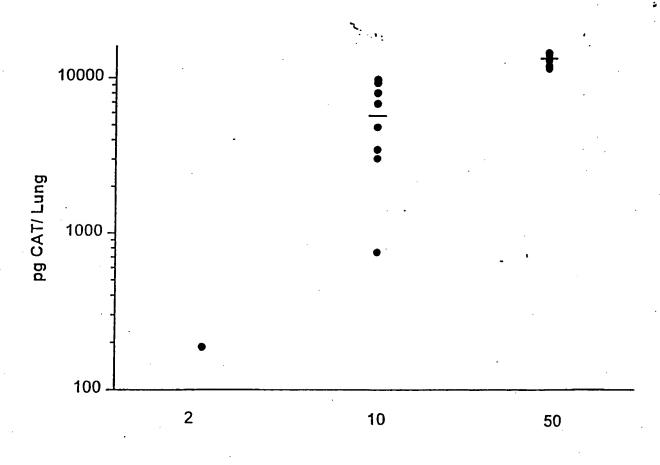


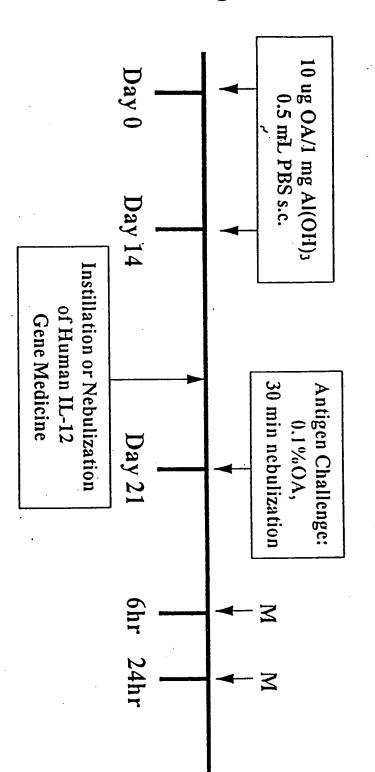
Fig. 9

(pCT0129.095:DOTMA/CHOL 1:3 -/+ 10% Lactose)



ug pDNA Instilled

Intigen-Induced Airway Inflammation Model in Guinea Pigs



M (measurement) = bronchoalveolar lavage total and differential cell count

Fig. 11

